

WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

April 2, 2007

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor *DWH*

FROM: James D. Smith, Environmental Scientist *DS* 04/12/07

RE: 2006 Fourth Quarter Water Monitoring, PacifiCorp, Deer Creek Mine.
C/015/0018

The Deer Creek Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

1. Were data submitted for all of the MRP required sites?

Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
In-mine	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

2. Were all required parameters reported for each site?

Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Streams	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>

TSS was not reported for ICA, ICB, and ICD.

Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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UPDES YES ☒ NO ☐

In-mine YES ☒ NO ☐

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (*) indicates this is not a parameter specifically required by the MRP.

Springs YES ☒ NO ☐

Sheba Spring: Mg and Na;
82-52: anion-cation balance;
JV-9: water temperature, Mg, K, Cl, and SO₄;
RR 5: Ca, Mg, total hardness, and lab specific conductivity*;
RR 23A: Cl and lab specific conductivity*;
UJV 206: total alkalinity.

Streams YES ☒ NO ☐

HCC01: field specific conductivity, Ca, Mg, total hardness, lab specific conductivity*, and total cations*;
HCC02: field specific conductivity, Ca, and Mg;
HCC04: Ca;
RCF3: field specific conductivity, total hardness, lab specific conductivity*, and total cations*;

Wells YES ☒ NO ☐

DCWR1: bicarbonate (as CaCO₃) and nitrite*.

UPDES YES ☒ NO ☐

23604-001 October: bicarbonate (as CaCO₃).

In-mine YES ☒ NO ☐

Main North-Main East: Ca, Mg, SO₄, total hardness, lab specific conductivity*, TDS, total cations*, and cation-anion balance.

4. On what date does the MRP require a five-year resampling of baseline water data.

Renewal submittal due 10/07/05, renewal due 12/17/06. Baseline analyses were performed in 2001 and will be repeated every 5 years; baseline analyses were repeated in 2006 and will be done again in 2011.

Baseline parameters were measured at some sites during the 1st and 2nd Qtr 2006. Most springs are monitored only in the 3rd and 4th qtrs. For the 3rd Qtr, the Division did not check every site in detail to determine if analyses had been done for all baseline parameters, but spot checks indicated that baseline parameters were determined for the 3rd Qtr. Baseline parameters were determined at all required sites for the 4th Quarter. Baseline parameters are not determined for UPDES sites.

5. Based on your review, what further actions, if any, do you recommend?

None.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?

YES ☐ NO ☒

7. Follow-up from last quarter, if necessary.

None.

8. Did the Mine Operator submit all the missing and/or irregular data (datum)?

TSS analyses were not done for ICA, ICB, and ICD.